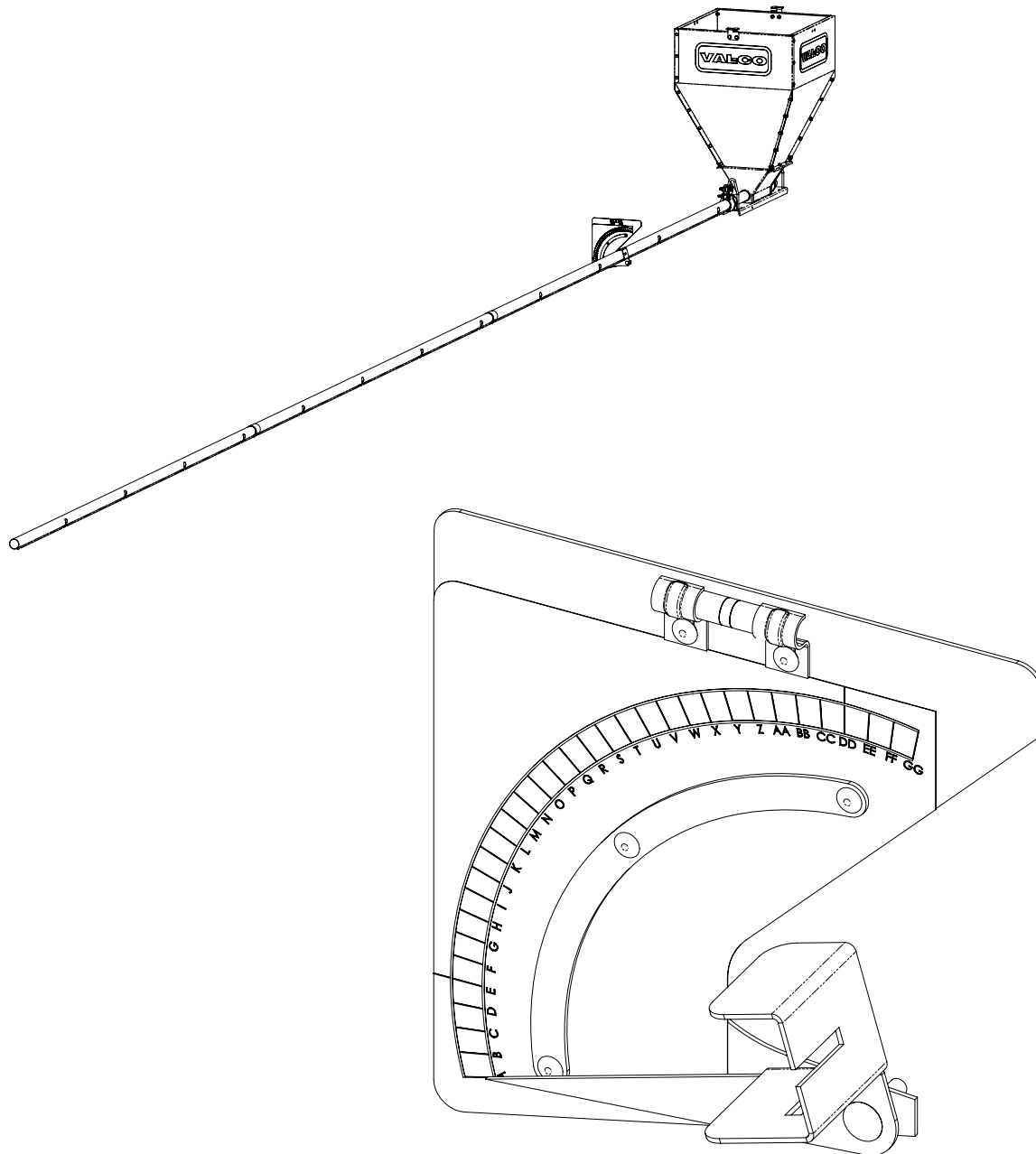




# TUBE INDEXING GAUGE

450135

Programming / Indexing Instructions



# Table of Contents

VAL PRODUCTS, INC. PRODUCT WARRANTIES ..... 3

Symbols ..... 3

Indexing the Line (Programming) ..... 4

Tube Indexing Chart - 9 Foot Tubes (all RPM, all hole quantity) ..... 6

Tube Indexing Chart - 10 Foot Tubes (all RPM, all hole quantity) ..... 7

Tube Indexing Chart - 12 Foot Tubes (all RPM, all hole quantity) ..... 8

Indexing Gauge (450135) - Exploded Drawing with Parts List ..... 9

Hanger Assembly (450185) - Drawing with Parts List ..... 10

Customer Service ..... 11

## VAL PRODUCTS, INC. WARRANTIES

For Warranty claims information, please see the “Manufactured Products Standard Warranty” form QMS101 available from Val Products, Inc. by:

- Phone: 1-800-998-2526
- Email: [marcom@val-co.com](mailto:marcom@val-co.com)
- Online: <http://val-co.it/warranty>


### Conditions and Limitations:

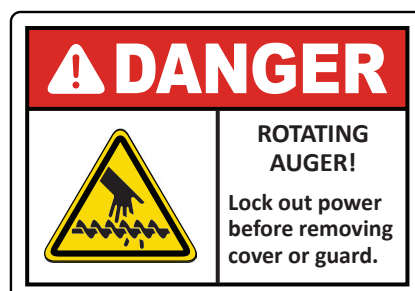
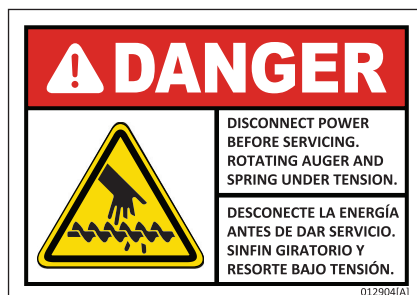
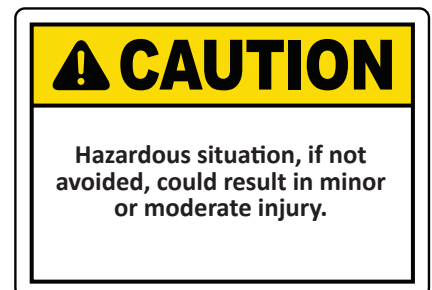
- Products and Systems involved in a warranty claim under the “Manufactured Products Standard Warranty” shall have been properly installed, maintained and operated under competent supervision, according to the instructions provided by Val Products, Inc.
- Malfunction or failure resulting from misuse, abuse, negligence, alteration, accident or lack of proper installation or maintenance shall not be considered a defect under the Warranty.

## Symbols

Our concern is for your safety. The safety warnings are included in this manual as a guide to help and encourage the safe operation of your equipment. It is your responsibility to evaluate the hazards of each operation and implement the safest method of protecting yourself as owner and/or operator.

	<b>= NOTICE - Important information. Be sure to read.</b>
---	---

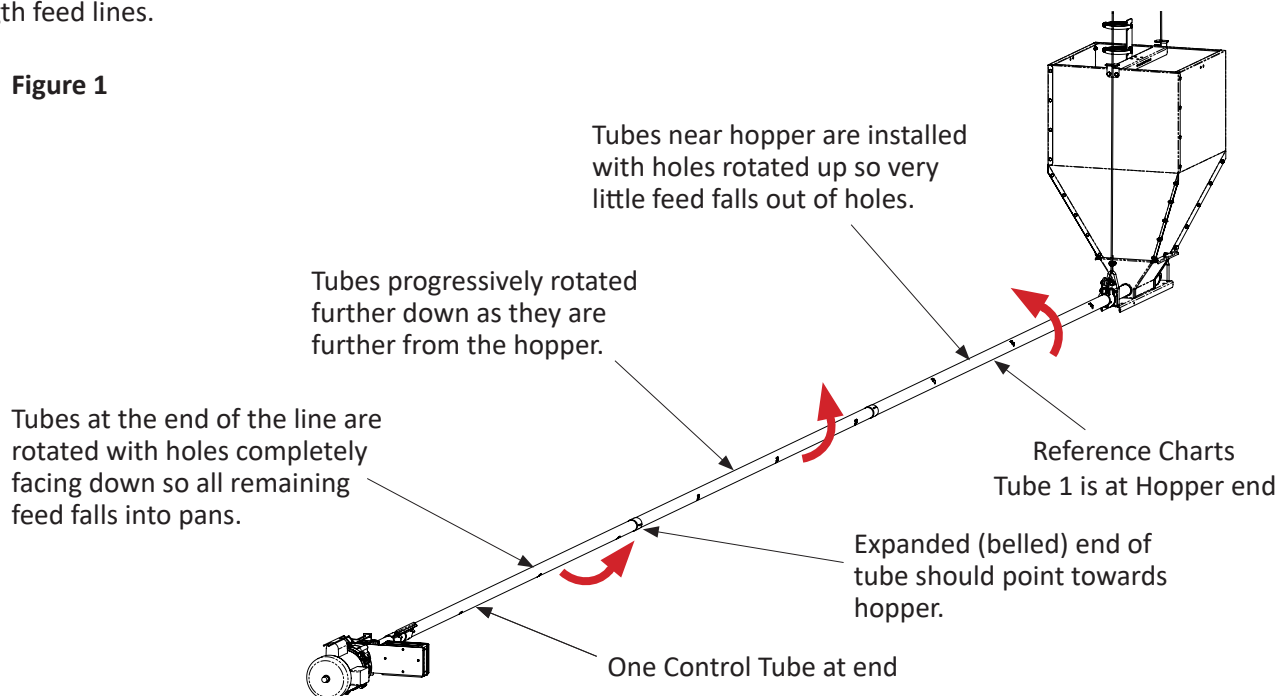
	<b>= WARNING - The safety alert symbol is used on warning signs that describe the importance of a feature or explain a step that one should pay close attention to avoid problems or personal injury.</b>
--	---



## Indexing the Line (Programming)

One of the goals of raising a pullet flock is to raise a uniform, healthy flock with specific weight gain goals. It is critical the feed is distributed evenly to every feed pan throughout the barn as quickly as possible. Indexing the lines (or programming) is one of the keys to ensuring speedy and even feed distribution. Indexing the feed line occurs during installation. To correctly index, tubes near the hopper are installed rotated so very little feed falls out of the tube holes into the pan, with most feed bypassing and continuing towards the end of the feed line, as shown in Figure 1. The tubes closer to the end of the line are rotated so more feed falls into the pan. The last tube in line (next to the drive) should be a control tube. The index charts on pages 9 thru 11 communicate the proper rotation for varying length feed lines.

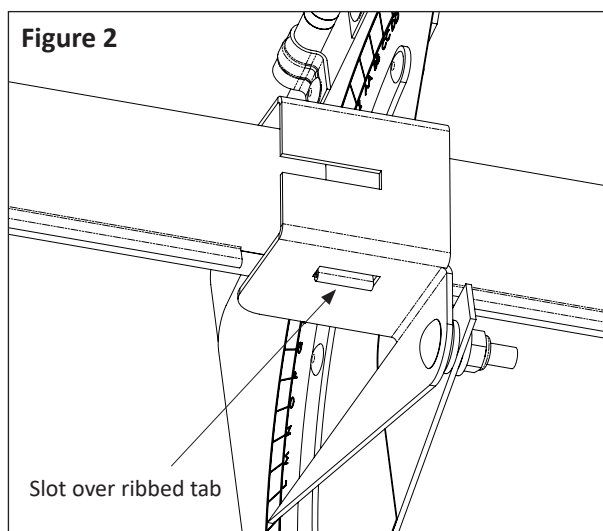
**Figure 1**



1. Loosen the tube clamps, or if the line is new, leave the tube clamps loose until the line has been programmed. **BE SURE TO TURN OFF ALL POWER BEFORE SERVICING!**

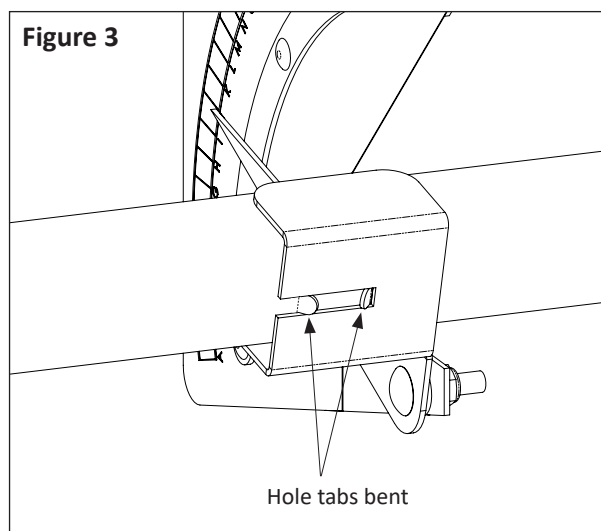
### Ribbed Tube Instructions

2. For ribbed tube, start at the hopper end of the feed line (tube 1), facing the hopper, and attach the Indexing Gauge on the feeder tube by securely snapping it over the ribbed tab near the feed drop hole of the tube, as shown in Figure 2.



### Smooth Tube Instructions

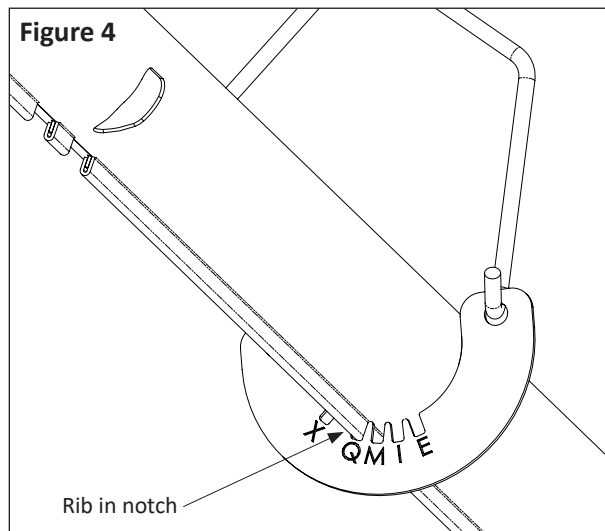
2. For smooth tube, start at the hopper end of the feed line (tube 1), facing the hopper, and attach the Indexing Gauge on the feeder tube by securely snapping it over both tabs of the feed drop hole of the tube. If installation is new, you must bend the hole tabs out with a pliers, as shown in Figure 3.



## Indexing the Line (Programming) - continued

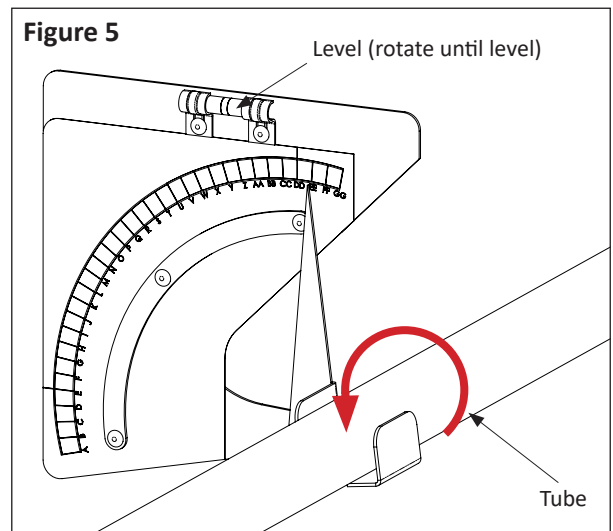
### Ribbed Tube Instructions

- For ribbed tube, place the gauge arrow at the correct marking and rotate the tube until the gauge is level. Then install the Hanger Assembly (451085), placing the rib into the correct hanger slot, as shown in Figure 4.



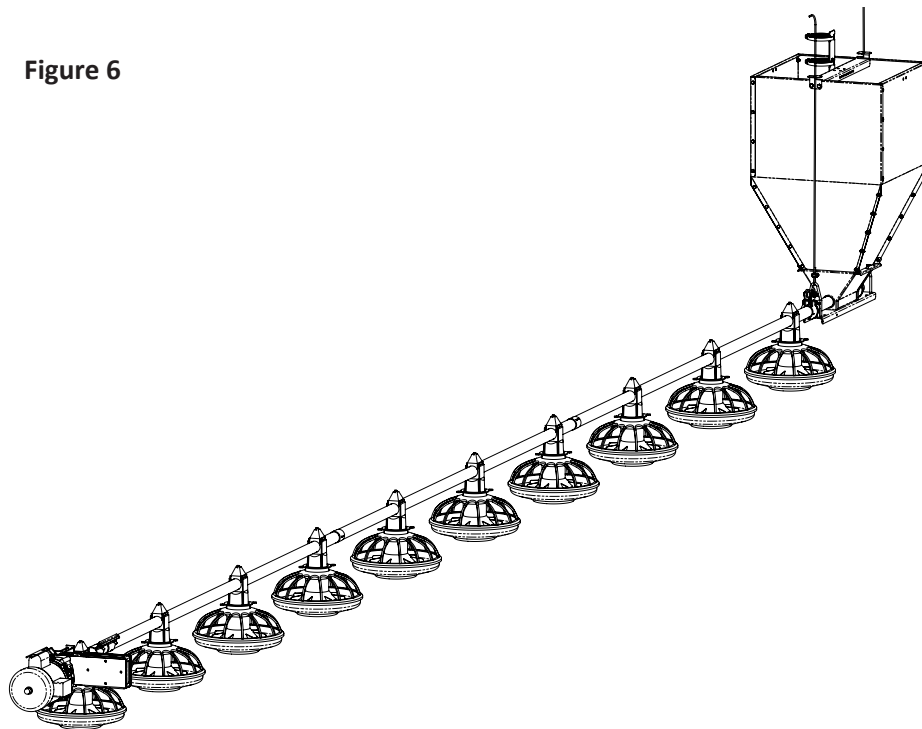
### Smooth Tube Instructions

- For smooth tube, set the Gauge Indicator to the proper setting on the gauge according to the markings on the tube, and rotate rotate the tube until the gauge is level, as shown in Figure 5.



- Tighten the clamp on the bell of the Feed Tube toward the hopper once you have rotated the tube to the appropriate setting according to the chart for your system and the Gauge is LEVEL, as shown in Figure 5. This will prevent the tube which you have already set from moving. Continue this procedure for the remainder of the line as you set each tube according to the appropriate chart for your system.
- Align feed pans, level and then tighten the non-swing clamps on each feeder as you program the feed line, as shown in Figure 6.

Figure 6



## Tube Indexing Chart - 9 Foot Tubes (all RPM, all hole quantity)

9 FOOT TUBES (all RPM, all hole quantity) INDEXING CHART																		
TUBE NO.	33 Tube Line	32 Tube Line	31 Tube Line	30 Tube Line	29 Tube Line	28 Tube Line	27 Tube Line	26 Tube Line	25 Tube Line	24 Tube Line	23 Tube Line	22 Tube Line	21 Tube Line	20 Tube Line	19 Tube Line	18 Tube Line	17 Tube Line	16 Tube Line
1	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
2	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
3	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
4	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	I
5	E	E	E	E	E	E	E	E	E	E	E	E	E	I	I	I	I	I
6	E	E	E	E	E	E	E	E	E	E	I	I	I	I	I	I	I	I
7	E	E	E	E	E	E	I	I	I	I	I	I	I	I	I	I	I	M
8	E	E	I	I	I	I	I	I	I	I	I	I	I	I	I	M	M	M
9	I	I	I	I	I	I	I	I	I	I	I	I	I	M	M	M	M	M
10	I	I	I	I	I	I	I	I	I	I	I	I	M	M	M	M	M	Q
11	I	I	I	I	I	I	I	I	I	I	M	M	M	M	M	M	Q	Q
12	I	I	I	I	I	I	I	I	M	M	M	M	M	M	M	Q	Q	Q
13	I	I	I	I	I	I	M	M	M	M	M	M	M	Q	Q	Q	Q	X
14	I	I	I	I	M	M	M	M	M	M	M	M	Q	Q	Q	Q	X	X
15	I	I	M	M	M	M	M	M	M	M	M	Q	Q	Q	Q	X	X	X
16	M	M	M	M	M	M	M	M	M	M	Q	Q	Q	Q	X	X	X	X
17	M	M	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	X	
18	M	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	X		
19	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	X			
20	M	M	M	M	Q	Q	Q	Q	Q	Q	X	X	X	X				
21	M	M	M	Q	Q	Q	Q	Q	X	X	X	X	X					
22	M	M	Q	Q	Q	Q	Q	X	X	X	X	X						
23	Q	Q	Q	Q	Q	Q	X	X	X	X	X							
24	Q	Q	Q	Q	Q	X	X	X	X	X								
25	Q	Q	Q	Q	X	X	X	X	X									
26	Q	Q	Q	X	X	X	X	X										
27	Q	Q	X	X	X	X	X											
28	Q	X	X	X	X	X												
29	X	X	X	X	X													
30	X	X	X	X														
31	X	X	X															
32	X	X																
33	X																	

## Tube Indexing Chart - 10 Foot Tubes (all RPM, all hole quantity)

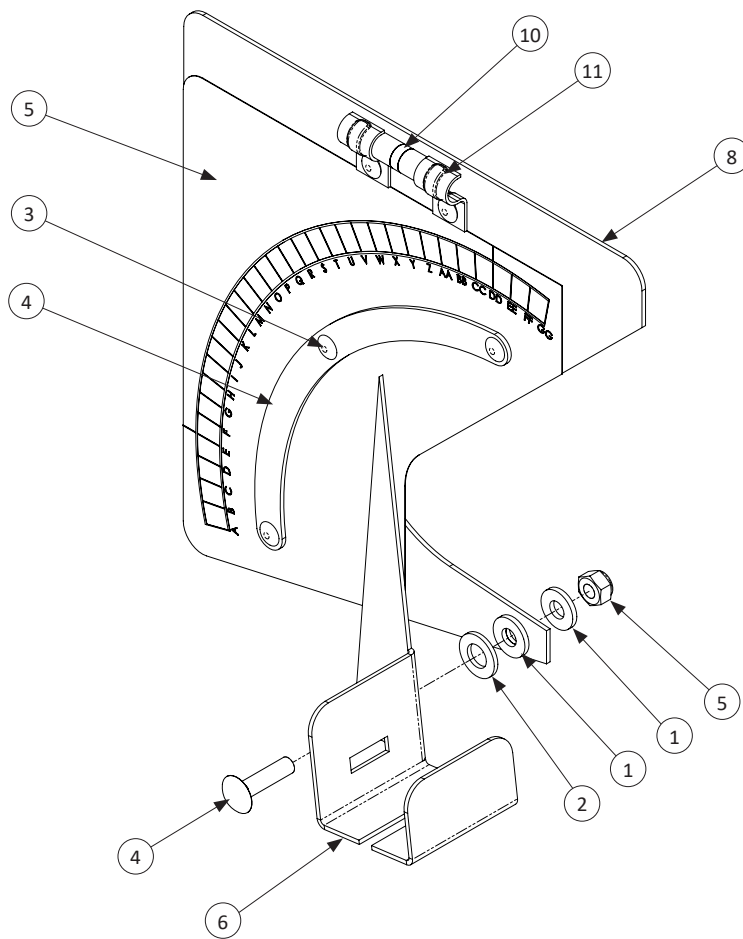
10 FOOT TUBES (all RPM, all hole quantity) INDEXING CHART																	
TUBE NO.	30 Tube Line	29 Tube Line	28 Tube Line	27 Tube Line	26 Tube Line	25 Tube Line	24 Tube Line	23 Tube Line	22 Tube Line	21 Tube Line	20 Tube Line	19 Tube Line	18 Tube Line	17 Tube Line	16 Tube Line	15 Tube Line	14 Tube Line
1	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
2	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
3	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	I
4	E	E	E	E	E	E	E	E	E	E	E	E	I	I	I	I	I
5	E	E	E	E	E	E	E	E	E	I	I	I	I	I	I	I	M
6	E	E	E	E	E	E	I	I	I	I	I	I	I	I	M	M	M
7	E	E	I	I	I	I	I	I	I	I	I	I	M	M	M	M	M
8	I	I	I	I	I	I	I	I	I	I	I	M	M	M	M	M	Q
9	I	I	I	I	I	I	I	I	I	M	M	M	M	M	M	Q	Q
10	I	I	I	I	I	I	I	M	M	M	M	M	M	M	Q	Q	Q
11	I	I	I	I	I	I	M	M	M	M	M	M	Q	Q	Q	Q	X
12	I	I	I	I	M	M	M	M	M	M	M	Q	Q	Q	Q	X	X
13	I	I	M	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X
14	M	M	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	X
15	M	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	X	
16	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	X		
17	M	M	M	M	Q	Q	Q	Q	Q	Q	X	X	X	X			
18	M	M	M	Q	Q	Q	Q	Q	X	X	X	X	X				
19	M	M	Q	Q	Q	Q	Q	X	X	X	X	X					
20	Q	Q	Q	Q	Q	Q	X	X	X	X	X						
21	Q	Q	Q	Q	Q	X	X	X	X	X							
22	Q	Q	Q	Q	X	X	X	X	X								
23	Q	Q	Q	X	X	X	X	X									
24	Q	Q	X	X	X	X	X										
25	Q	X	X	X	X	X											
26	X	X	X	X	X												
27	X	X	X	X													
28	X	X	X														
29	X	X															
30	X																

## Tube Indexing Chart - 12 Foot Tubes (all RPM, all hole quantity)

12 FOOT TUBES (all RPM, all hole quantity) INDEXING CHART														
TUBE NO.	25 Tube Line	24 Tube Line	23 Tube Line	22 Tube Line	21 Tube Line	20 Tube Line	19 Tube Line	18 Tube Line	17 Tube Line	16 Tube Line	15 Tube Line	14 Tube Line	13 Tube Line	12 Tube Line
1	E	E	E	E	E	E	E	E	E	E	E	E	E	E
2	E	E	E	E	E	E	E	E	E	E	E	E	E	E
3	E	E	E	E	E	E	E	E	E	E	E	E	E	E
4	E	E	E	E	E	E	E	E	E	E	E	I	I	I
5	E	E	E	E	E	E	I	I	I	I	I	I	I	I
6	E	E	E	I	I	I	I	I	I	I	I	I	I	M
7	I	I	I	I	I	I	I	I	I	I	M	M	M	M
8	I	I	I	I	I	I	I	I	M	M	M	M	M	Q
9	I	I	I	I	I	I	M	M	M	M	M	Q	Q	Q
10	I	I	I	M	M	M	M	M	M	M	Q	Q	Q	X
11	I	I	M	M	M	M	M	M	M	Q	Q	Q	X	X
12	M	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X
13	M	M	M	M	M	Q	Q	Q	Q	Q	X	X	X	
14	M	M	M	M	Q	Q	Q	Q	Q	X	X	X		
15	M	M	Q	Q	Q	Q	Q	X	X	X	X			
16	M	Q	Q	Q	Q	Q	X	X	X	X				
17	Q	Q	Q	Q	Q	X	X	X	X					
18	Q	Q	Q	Q	X	X	X	X						
19	Q	Q	Q	X	X	X	X							
20	Q	Q	X	X	X	X								
21	Q	X	X	X	X									
22	X	X	X	X										
23	X	X	X											
24	X	X												
25	X													

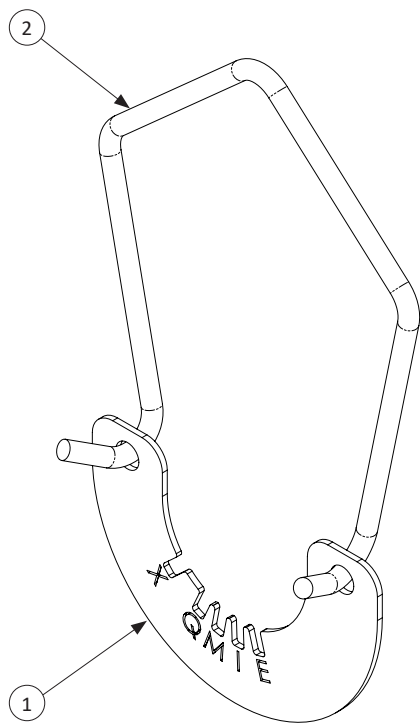


## Indexing Gauge (450135) - Exploded Drawing with Parts List



KEY	PART #	QTY	DESCRIPTION
<b>INDEXING GAUGE (450135)</b>			
1	010424	2	1/4" FLAT WASHER
2	010426	1	5/16" FLAT WASHER
3	010712	5	3/16" X 9/32" RIVET
4	011434	1	1/4" X 1" CARRIAGE BOLT
5	012793	1	1/4-20 NYLOCK NUT
6	450137	1	GAUGE NEEDLE
7	450175	1	WEAR PLATE
8	450495	1	GAUGE PLATE
9	451023	1	LABEL, TUBE INDEXING GAUGE
10	451035	1	BUBBLE LEVEL INDEXING GAUGE
11	451043	2	3/8" ROUTING CLAMP

Hanger Assembly (451085) - Drawing with Parts List



KEY	PART #	QTY	DESCRIPTION
HANGER ASSEMBLY (451085)			
1	451083	1	SHEET METAL HANGER, RIBBED
2	451084	1	FORMED WIRE TUBE HANGER, RIBBED

Customer Service

Dealer Name: \_\_\_\_\_

Street / PO Box \_\_\_\_\_

City \_\_\_\_\_

State / Province \_\_\_\_\_

Zip / Postal \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Website \_\_\_\_\_

**Customer Service**  
210 E. Main Street  
Coldwater, OH 45828  
800.998.2526



**North America:**

Phone: 800.99VALCO (800.998.2526)

Fax: 419.678.2200

Email: [sales@val-co.com](mailto:sales@val-co.com)

**International:**

Phone: (+1) 419.678.8731

Fax: (+1) 419.678.2200

Email: [intl.sales@val-co.com](mailto:intl.sales@val-co.com)